

WHAT IS CLAIMED IS:

1. An automated system for storing the pallet for loading the green tire, taking said
pallet into a warehouse and taking said pallet out of the warehouse comprising a conveyor
5 section 3 for taking the pallet 2 on which the green tire 1 subjected to a forming process is
loaded into the warehouse; a gantry robot section 5 for transferring said pallet 2 to be taken
out of the warehouse to a conveyor section 4 for taking the pallet out of the warehouse
when the pallet is taken out of the warehouse while the warehoused pallet 2 is transferred
to a location on which the warehoused pallet is stacked and stored; and a conveyor section
10 4 for taking the pallet out of the warehouse by said gantry robot 5, in which the above
gantry robot 5 is operated in the directions of X axis 6, Y axis 7 and Z axis 8, so that said
pallet is selectively transferred and positioned.

2. The automated system according to claim 1, wherein said pallet 2 has handles
15 11 provided at posts 10 mounted vertically onto the four corners of a base frame 9 so as to
handle the pallet 2 when the gantry robot 5 is moved in the direction of Z axis(8); and each
post 10 has an upper cap 12 mounted onto the upper surface thereof so as to use when the
pallets are stacked in multi layers.